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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. MON NO. 10/038,630 01/03/2002 Shawn D. Bush 3675-010819

7590

02/24/2004

Kirk M. Miles 700 Koppers Building 436 Seventh Avenue Pittsburgh, PA 15219-1818 **EXAMINER**

FRISTOE JR, JOHN K

PAPER NUMBER ART UNIT

3754

DATE MAILED: 02/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		iA A
	Application No.	Applicant(s)
Office Action Summary	10/038,630	BUSH, SHAWN D.
	Examiner	Art Unit
	John K. Fristoe Jr.	3754
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, to the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a r n. a reply within the statutory minimum of thin eriod will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on 0 2a) ☐ This action is FINAL. 2b) ⊠ 3) ☐ Since this application is in condition for allocation accordance with the practice under the condition of the con	This action is non-final. owance except for formal matt	·
Disposition of Claims		
4) ☐ Claim(s) 1-20 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	ndrawn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Exar 10) ☑ The drawing(s) filed on 03 January 2002 is Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) ☐ The oath or declaration is objected to by the	s/are: a) ☐ accepted or b) ☑ o o the drawing(s) be held in abeyar orrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachment(s) 1)	4\ □ Interview s	Summary (PTO-413)
 Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 4/11/2002. 	Paper No(s	s)/Mail Date nformal Patent Application (PTO-152)

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 4/11/2002 is acknowledged by the examiner.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "external control unit" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. This objection can be overcome by providing a black box to represent the external control unit, which will reduce the risk of introducing new matter

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 4-8, 10-13, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. No. 6,018,827 (Shaw et al.). Shaw et al. disclose a kit (fig. 11) for a fluid control switch comprising an adapter (106), a switch housing (100), a switch orifice (120), a switch orifice rim (adjacent element 120 in figure 8), an activation portion (122), a signal switch (110), a communication line (112) which is a phone line (col. 7, lines 7-10), a signal switch medium (104), the adapter element has an outer surface having external threads (126) that correspond to

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the threads (128) disposed on the switch orifice inner wall, the adapter element (106) has a unitary body, wherein the signal switch (110) produces a data signal (col. 8, lines49-52) that is send to a control box (162) allowing fluid to flow through a control valve (166) and further through a faucet (172) and a method of retrofitting the faucet using the above described fluid control switch.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2, 3, and 14-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,018,827 (Shaw et al.) in view of U.S. Pat. No. RE37,888 (Cretu-Petra). Shaw et al. disclose the above described fluid control switch but lacks having the switch having an analog/ digital converter. Cretu-Petra teaches a fluid control switch having an analog/ digital converter (col. 4, lines 48-52). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the fluid control switch of Shaw et al. by incorporating an analog/ digital converter as taught by Cretu-Petra in order to more accurately control the valve since a digital signal is a more discrete signal.
- 7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,018,827 (Shaw et al.) in view of engineering expedient. Shaw et al. disclose the above described fluid control switch having a snitch housing made of steel (col. 6, lines 66-67) but lacks having the adapter element made of steel. It would have been obvious as a matter of

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engineering expedient to manufacture the adapter element out of steel since the switch housing is made of steel and the switch housing and adapter element are threaded together. It would have been obvious to one of ordinary skill in the art at the time the invention was made modify the fluid control switch of Shaw et al. by manufacturing the adapter element out of steel as a matter of engineering expedient in order to strengthen the connection between the switch housing and adapter element.

Any inquiry concerning this communication or earlier communications from the 8 examiner should be directed to John K. Fristoe Jr. whose telephone number is (703) 308-1437. The examiner can normally be reached on Monday-Friday, 7: 00 a.m-4: 30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Louis G. Mancene can be reached on (703) 308-2696. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> John K. Fristoe Jr. Examiner

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